MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Unirac, Inc.
1411 Broadway Blvd. NE
Albuquerque, New Mexico 87102

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Unirac Solarmount Solar Mounting System

APPROVAL DOCUMENT: Drawing No. M-D NOA, titled "Solar PV Racking System" sheets 1 through 12 of 12, dated Nov. 19, 2019, last revision #2 dated April 21, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E., on April 08, 2021 bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: NONE

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city and state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA #19-0429.02** and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**

MIAMI-DADE COUNTY APPROVED

Helmy A. Makar
08/05/2021

NOA No. 21-0510.06
Expiration Date: 05/21/2025
Approval Date: 08/05/2021

Unirac, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #19-0429.02

A. DRAWINGS

1. *Drawing No. M-D NOA, titled "Solar PV Racking System" sheets 1 through 12 of 12, dated Nov. 19, 2019, last revision #2 dated April 21, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*

B. TESTS

1. *Test report on ASTM D1761 – Withdrawal, Perpendicular and parallel shear Test, prepared by Intertek, Report No. J9904.01-106-18 R0, dated 09/17/19, signed and sealed by Gary T. Hartman, P.E.*
2. *Test report on TAS 100(A)-95 Wind and wind Driven Rain Resistance Test, prepared by Intertek, Report No. J0950.01-109-18, dated 12/19/18, signed and sealed by Joseph A. Reed, P.E.*

C. CALCULATIONS

1. *Calculation, 36 pages, dated 01/29/18, signed and sealed by Paul K. Zacher, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *Florida Building Code, 2017 Edition, compliance letter dated April 29, 2020, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. M-D NOA, titled "Solar PV Racking System" 12 sheets, dated 11/19/2019, revision #2 dated 04/21/20, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E., on April 08, 2021.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *FBC, 2020 Edition, compliance letter dated April 08, 2021, prepared by CBuck Engineering, signed and sealed by James L. Buckner, P.E.*

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 21-0510.06
Expiration Date: 05/21/2025
Approval Date: 08/05/2021

SYSTEM IS SECURED TO ROOF STRUCTURE
(BY OTHERS) AS SOLAR PANEL RACK.

PC RACKING SYSTEM IS NOT RATED FOR IMPACT.

SOLAR PV RACKING SYSTEM

DESIGN LOAD RATING FOR SOLAR PANEL RACK TO BE AS PER CHARTS SHOWN ON SHEET 2 AND 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER LOAD RATING CHARTS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ROOF SHEATHING.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND WEATHER SEALING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN N THIS DRAWING ARE TO BE ANALYZED SEPARATELY AND TO BE REVIEWED BY BUILDING OFFICIAL.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1703.5.

MAX. ROOF SLOPE PER FLORIDA BUILDING CODE, 2020 EDITION.

PART TABLE

ITEM #	PART NUMBER	DESCRIPTION
1	315168M, 315168D, 315246M, 315246D	SOLARMOUNT LIGHT RAIL
2	320132M, 310132C, 320168M, 310168C, 310168D, 320208M, 310208C, 320246M, 310246C, 310246D	SOLARMOUNT STANDARD RAIL
3	410144M, 410168M, 410204M, 410246M	SOLARMOUNT HD RAIL
4	302035M	SOLARMOUNT ENDCLAMP PRO SERIES ASSEMBLY
5	302030M, 302030D	SOLARMOUNT MIDCLAMP PRO SERIES ASSEMBLY
6	004055M, 004055D	SOLARMOUNT FLASHKIT PRO ASSEMBLY
7	303019M, 303019D	BONDING SPLICE BAR PRO SERIES ASSEMBLY
8	302027, 302028, 302029, 302030	SOLARMOUNT ENDCLAMP STANDARD ASSEMBLY
9	302023, 302024, 302025, 302026	SOLARMOUNT MIDCLAMP STANDARD ASSEMBLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0510.06
Expiration Date 05/21/2025
By
Miami Dade Product Control

JAMES L. BUCKNER
LICENSE
No. 31242
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
4/8/21

CBUCK Engineering
www.cbuck@cbuckinc.net.
(561) 491-9927 COA # 8064
1374 Community Dr
Jupiter, FL 33458

UNIRAC
1411 BROADWAY BOULEVARD NE
ALBUQUERQUE, NM, USA, 87102
WWW.UNIRAC.COM

ENGINEER'S STAMP

REVISIONS

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

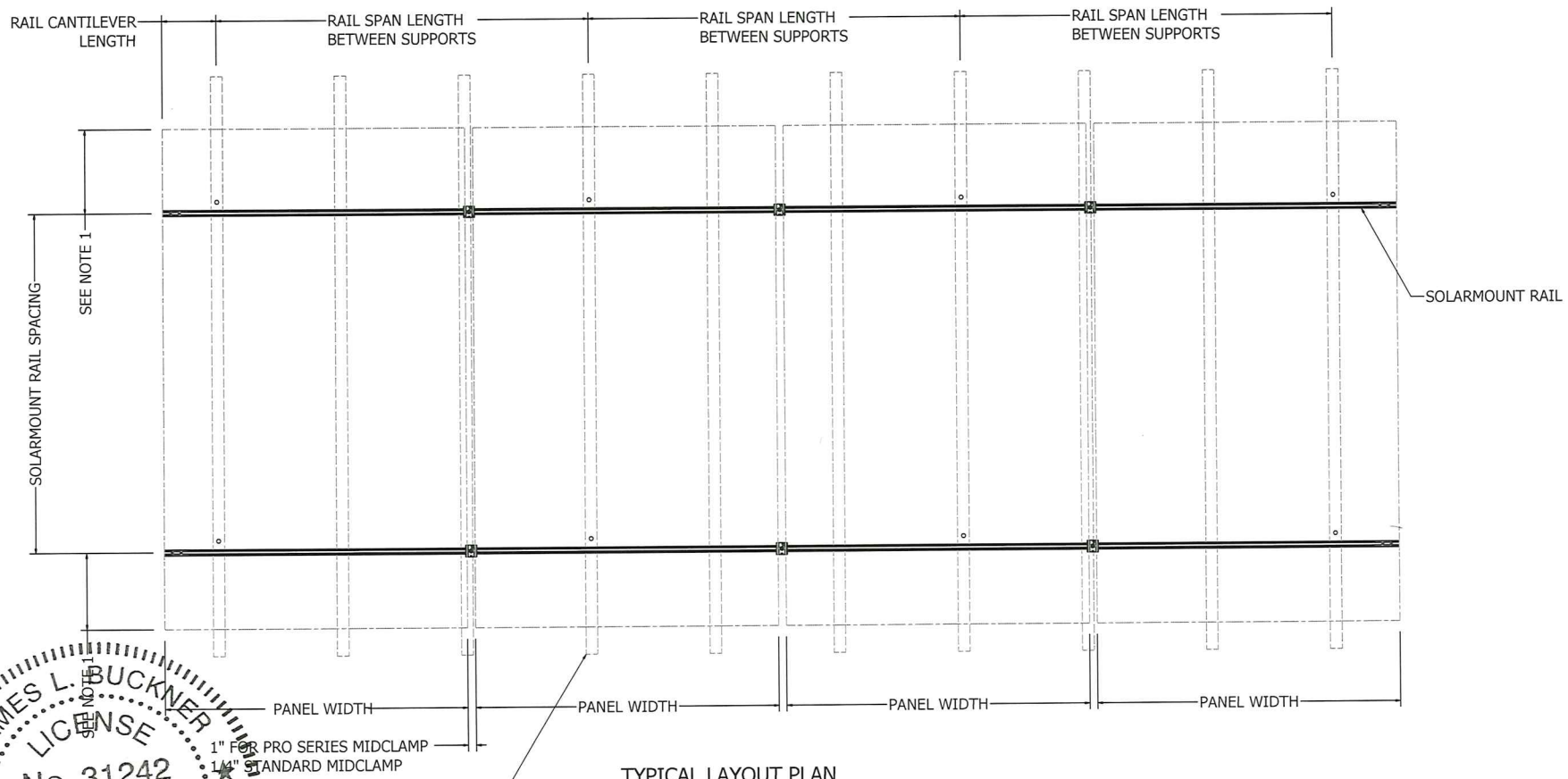
FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA

PROJECT ADDRESS

TITLE
SOLARMOUNT COVER SHEET

DWG NO.
M-D NOA



TYPICAL LAYOUT PLAN
NOT TO SCALE

NOTES:
1. PER PANEL MANUFACTURER'S APPROVED MOUNTING INSTRUCTIONS.
2. STANDARD ROOF CONSTRUCTION (PER MIAMI-DADE BUILDING CODE REQUIREMENTS)

JAMES L. BUCKNER LICENSE No. 31242 STATE OF FLORIDA PROFESSIONAL ENGINEER
4/8/21

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 21-0510.06
Expiration Date MAY 21 2025
By Miami Dade Product Control

CBUCK Engineering
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Jupiter, FL 33458

2 RAIL DESIGN RULES

	Pressure Limit (psf) (Up and Down)	Max Attachment Span (in)	Max Cantilever (in)
SOLARMOUNT STANDARD	59.9 / 98.7	48	16
	79.9 / 131.6	36	12
	89.9 / 148.0	32	10
	90.9 / 197.3	24	8
	90.9 / 296.0	16	6
SOLARMOUNT LIGHT	43.9 / 54.3	48	16
	58.5 / 99.6	36	12
	65.8 / 127.1	32	10
	65.9 / 188.7	24	8
	65.9 / 282.9	16	6

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ENGINEER'S STAMP

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1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

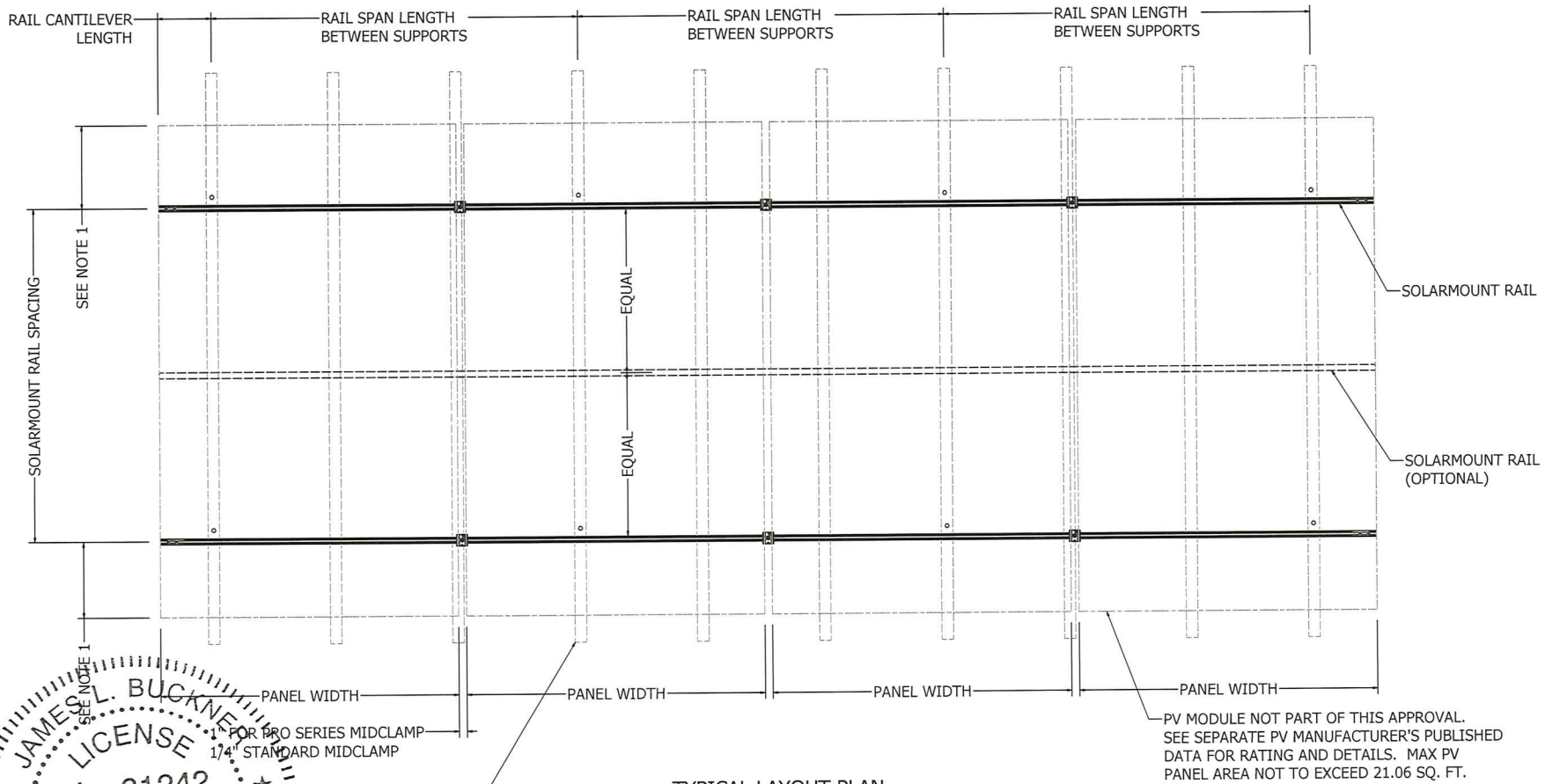
FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT DESIGN LOAD PLAN (2 RAIL)

DWG NO.
M-D NOA

SHEET 2 OF 12



TYPICAL LAYOUT PLAN
NOT TO SCALE

3 RAIL DESIGN RULES

	Pressure Limit (psf) (Up and Down)	Max Attachment Span (in)	Max Cantilever (in)
SOLARMOUNT STANDARD	89.9 / 148.0	48	16
	119.8 / 197.3	36	12
	134.8 / 222.0	32	10
	136.3 / 296.0	24	8
	136.3 / 444.0	16	6
SOLARMOUNT LIGHT	65.8 / 81.5	48	16
	87.7 / 149.4	36	12
	98.7 / 190.7	32	10
	98.8 / 283.0	24	8
	98.8 / 424.4	16	6

JAMES L. BUCKNER
LICENSE
No. 31242
STATE OF FLORIDA
PROFESSIONAL ENGINEER
5/8/21

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No MAY 21 2025
Expiration Date 21-0510.06
By Miami Dade Product Control

NOTES:
1. PER PANEL MANUFACTURER'S APPROVED MOUNTING INSTRUCTIONS.
2. STANDARD ROOF CONSTRUCTION (PER MIAMI-DADE BUILDING CODE REQUIREMENTS)

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ENGINEER'S STAMP

REVISIONS

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

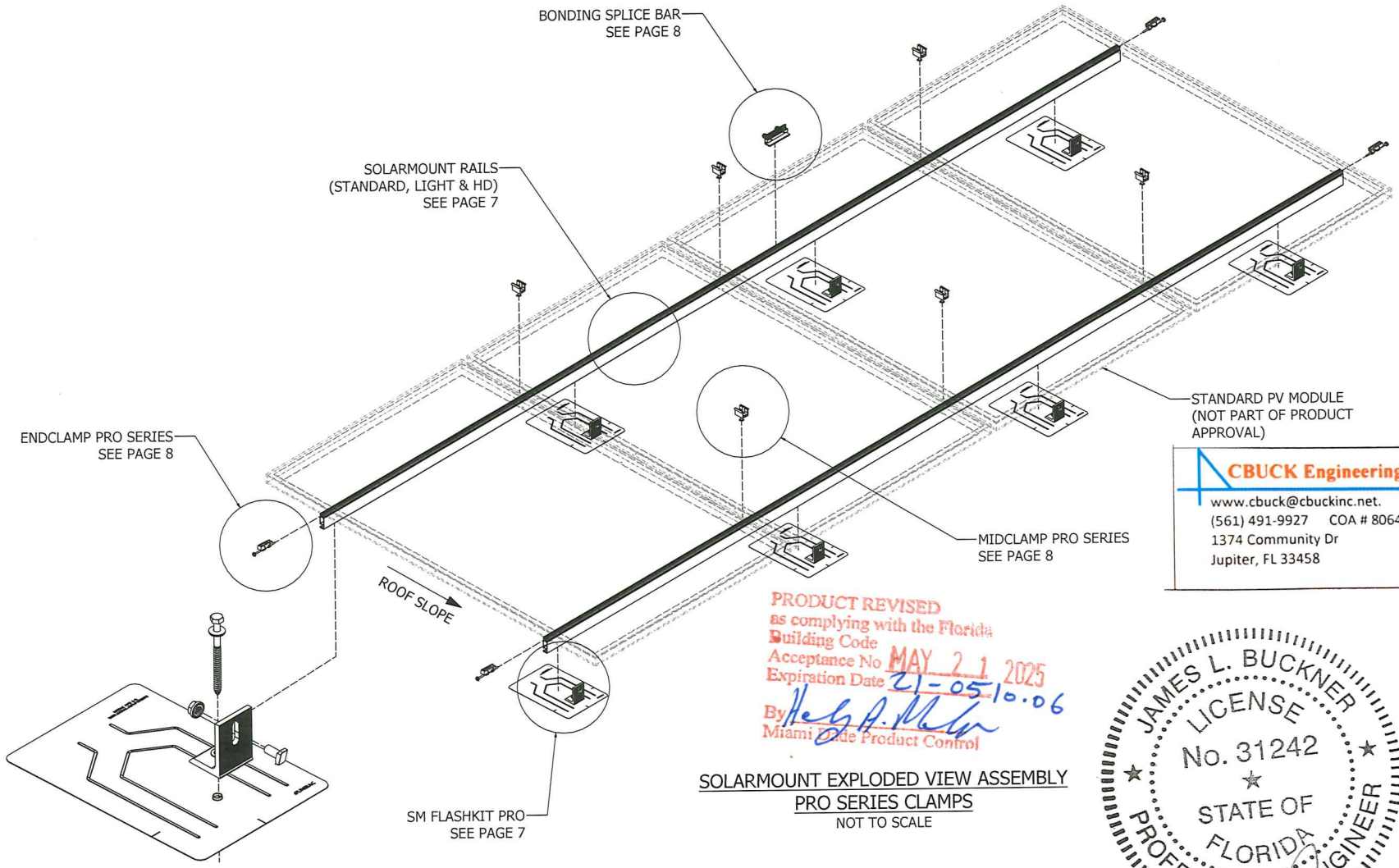
FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT DESIGN LOAD PLAN (3 RAIL)

DWG NO.
M-D NOA

SHEET 3 OF 12



SOLARMOUNT EXPLODED VIEW ASSEMBLY
PRO SERIES CLAMPS
NOT TO SCALE

EXPLODED ALTERNATE
SM FLASHKIT PRO
NOT TO SCALE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No MAY 21 2025
Expiration Date 21-05 10.06
By
Miami-Dade Product Control

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JAMES L. BUCKNER
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4/6/21

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ENGINEER'S
STAMP

REVISIONS

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

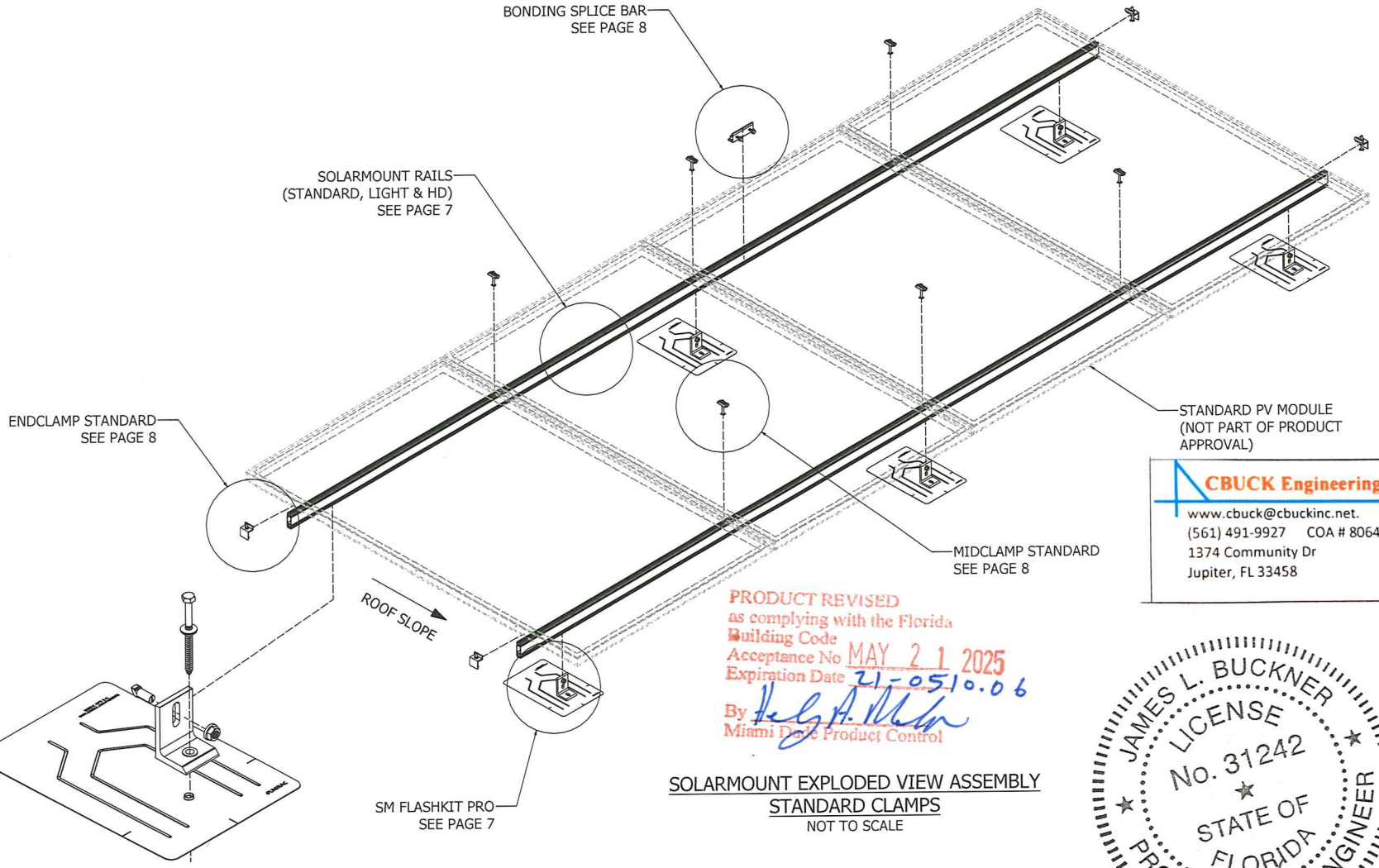
FOR
MIAMI-DADE
COUNTY

PROJECT
MIAMI-DADE CO.
NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT
EXPLODED VIEW
ASSEMBLY
PRO SERIES CLAMPS

DWG NO.
M-D NOA

SHEET 4 OF 12



SOLARMOUNT EXPLODED VIEW ASSEMBLY
STANDARD CLAMPS
NOT TO SCALE

EXPLODED SM FLASHKIT PRO
NOT TO SCALE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No MAY 21 2025
Expiration Date 21-0510.06
By
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5/8/21

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ENGINEER'S STAMP

REVISIONS

REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT EXPLODED VIEW ASSEMBLY STANDARD CLAMPS

DWG NO.
M-D NOA

SHEET 5 OF 12

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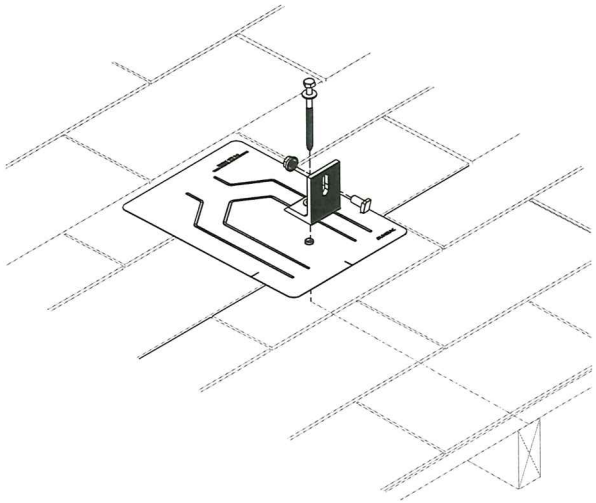
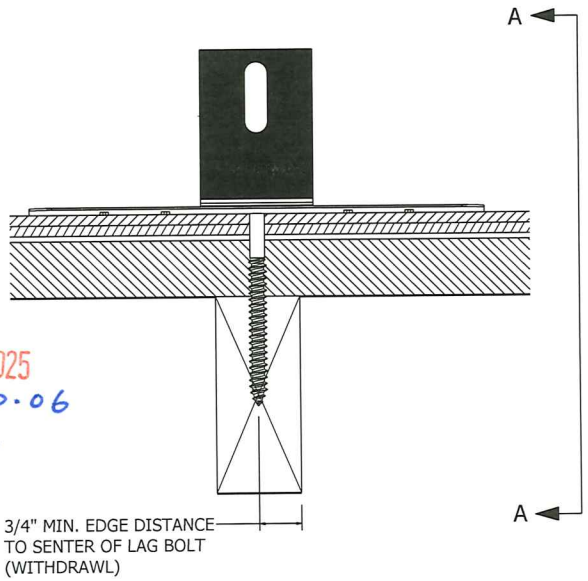


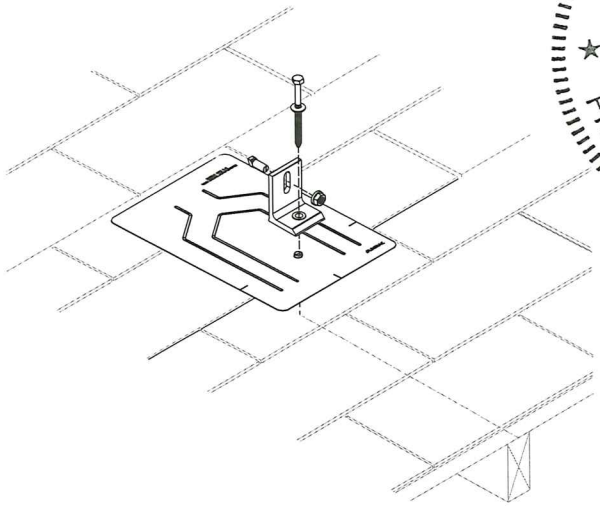
SM FLASHKIT PRO L-FOOT INSTALLATION
NOT TO SCALE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No MAY 21 2025
Expiration Date 21-0510.06
By
Miami Dade Product Control

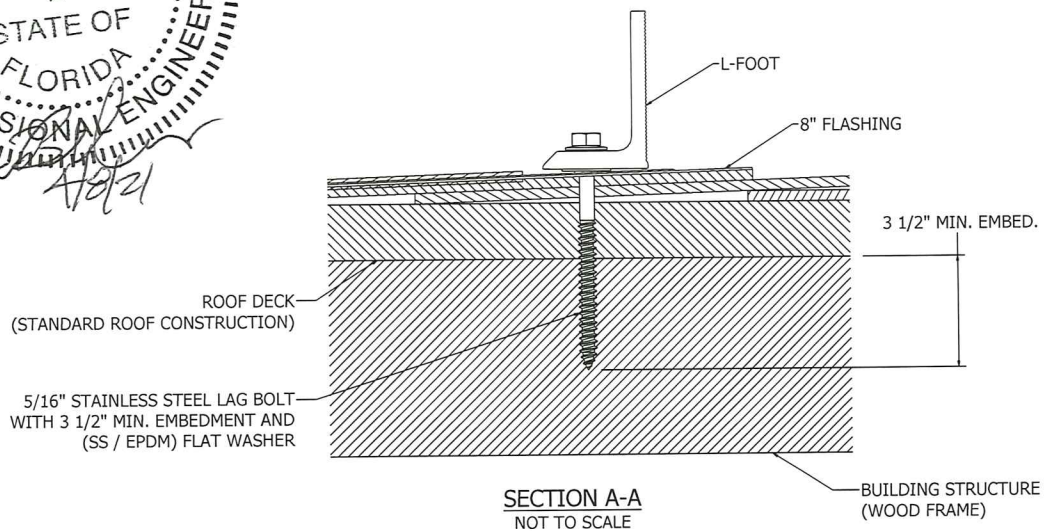


SECTION L-FOOT FLASHING DETAIL-L-FOOT FLASHING DETAIL
NOT TO SCALE

JAMES L. BUCKNER
LICENSE
No. 31242
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
4/9/21



ALTERNATE L-FOOT CONFIGURATION
NOT TO SCALE



SECTION A-A
NOT TO SCALE

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WWW.UNIRAC.COM

ENGINEER'S STAMP

REVISIONS			
REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
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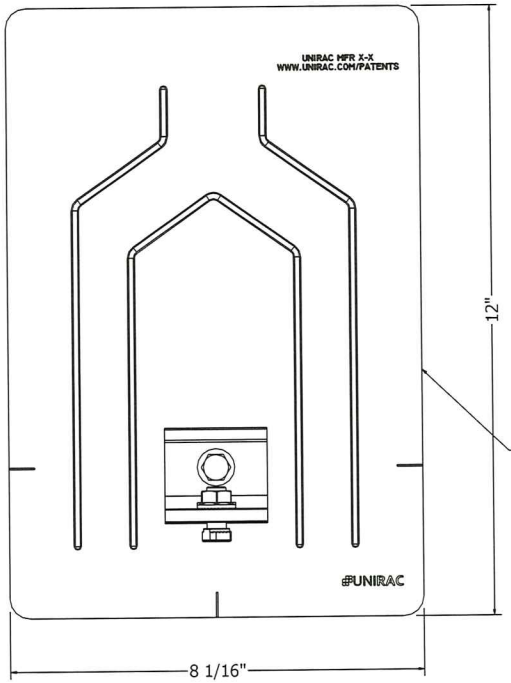
FOR
MIAMI-DADE COUNTY

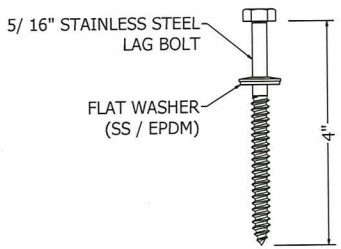
PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT SYSTEM DETAILS

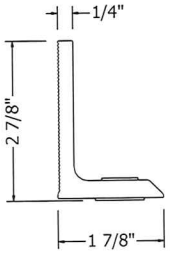
DWG NO.
M-D NOA

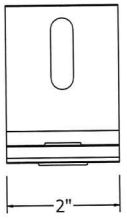


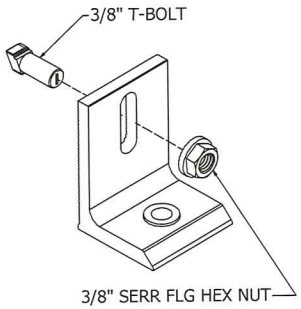
FLASHKIT PRO SM L-FOOT ASSEMBLY
NOT TO SCALE



LAG SCREW W/ WASHER ASSEMBLY

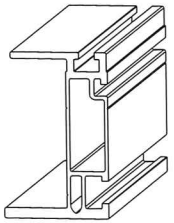


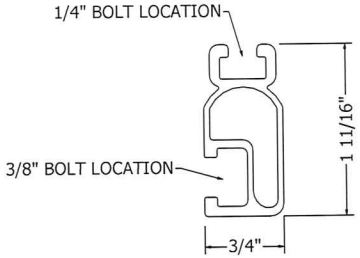




L-FOOT SERR W/T-BOLT
NOT TO SCALE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No MAY 2 1 2025
Expiration Date 21-0510.06
By
Miami Dade Product Control





SOLARMOUNT LIGHT RAIL
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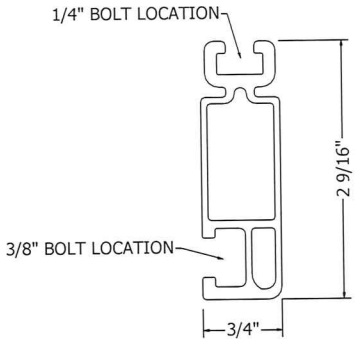
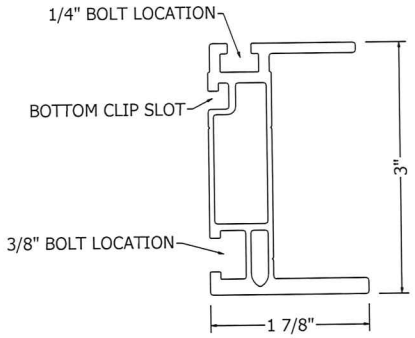


SOLARMOUNT STANDARD RAIL
NOT TO SCALE



SOLARMOUNT HD RAIL
NOT TO SCALE

CBUCK Engineering
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4/8/21

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ENGINEER'S STAMP

REVISIONS

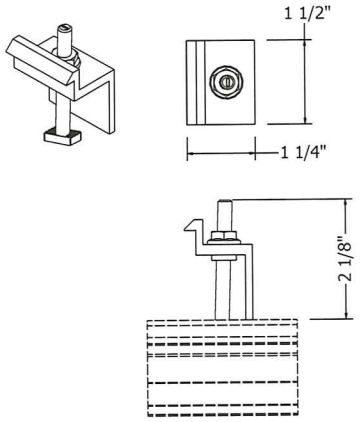
REV	DATE	DESCRIPTION	CHK
1	11/19/19	INITIAL RELEASE	-
2	04/21/20	REVISED PER COMMENTS	-

FOR
MIAMI-DADE COUNTY

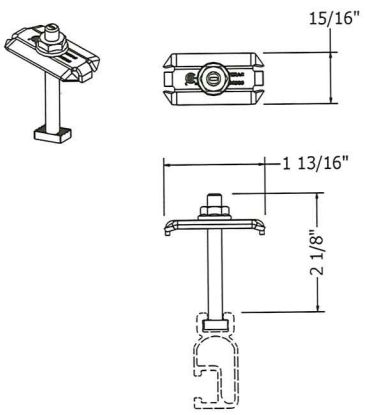
PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT SYSTEM DETAILS

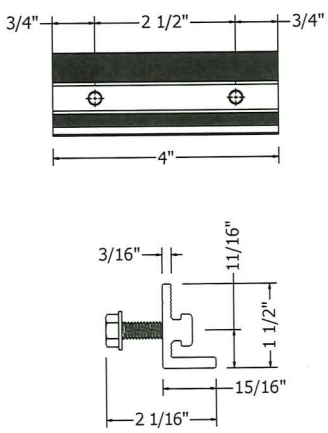
DWG NO.
M-D NOA



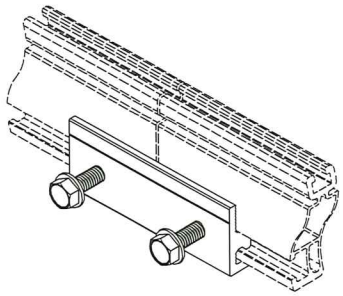
STANDARD ENDCLAMP
NOT TO SCALE
(SEE SHEET 11 OF 12)

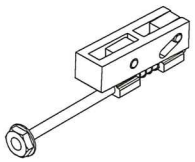


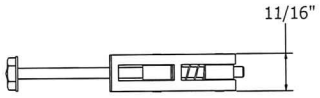
STANDARD MIDCLAMP
NOT TO SCALE
(SEE SHEET 11 OF 12)

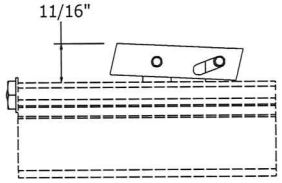


BONDING SPLICE BAR
PRO SERIES
NOT TO SCALE

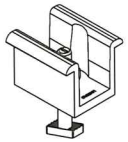


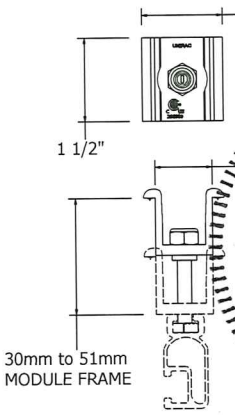






PRO SERIES ENDCLAMP
NOT TO SCALE





PRO SERIES MIDCLAMP
NOT TO SCALE
(SEE SHEET 10 OF 12)

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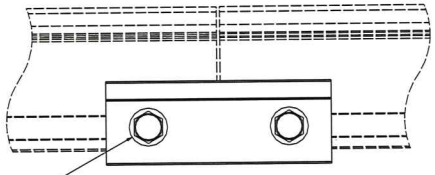

TYPICAL SPLICE BAR DETAIL
NOT TO SCALE
(SEE SHEET 12 OF 12)

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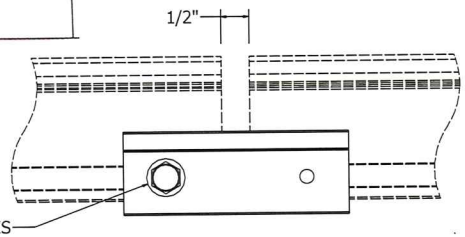

NOTE THAT ONLY 1 SCREW IS USED AT AN EXPANSION JOINT. THE SPLICE BAR DOES NOT BOND ACROSS AN EXPANSION JOINT. SEE INSTALLATION GUIDE FOR INSTRUCTION.

TYPICAL EXPANSION JOINT DETAIL
NOT TO SCALE

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FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT SYSTEM DETAILS

DWG NO.
M-D NOA

SHEET 8 OF 12

1. OVER THE RAFTER, DRILL A PILOT HOLE(S) FOR THE LAG BOLT(S).

2. INSERT THE FLASHING SO THE TOP PART IS UNDER THE NEXT ROW OF SHINGLES AND THE HOLE LINES UP WITH THE PILOT HOLE.

3. INSERT THE LAG BOLT THROUGH THE L-FOOT IN THE ORDER SHOWN IN THE IMAGE. VERIFY PROPER ORIENTATION BEFORE TIGHTENING LAG BOLTS.

4. INSERT THE LAG BOLT THROUGH THE L-FOOT IN THE ORDER SHOWN IN THE IMAGE. VERIFY PROPER ORIENTATION BEFORE TIGHTENING LAG BOLTS.

5. INSERT 3/8" T-BOLT INTO RAIL AT L-FOOT LOCATIONS. ROTATE T-BOLT INTO POSITION.

6. HAND TIGHTEN NUT UNTIL RAIL ALIGNMENT IS COMPLETE. VERIFY THAT POSITION INDICATOR ON BOLT IS VERTICAL (PERPENDICULAR TO RAIL)

7. USE DRILL TO TIGHTEN NUT ONTO T-BOLT.

8. SEE RAIL ATTACHED TO L-FOOT.

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FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA

PROJECT ADDRESS

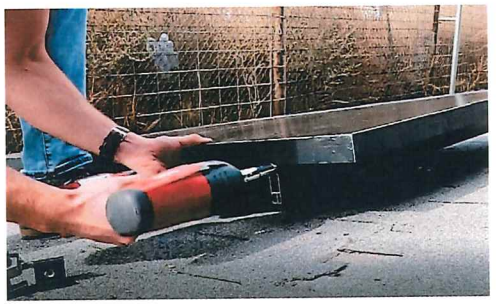
TITLE
SOLARMOUNT FLASHKIT PRO INSTALLATION

DWG NO.
M-D NOA

SHEET 9 OF 12

1. SLIDE END CLAMP ON TO RAIL BY ENGAGING THE TWO T-GUIDE BRACKETS WITH THE TOP SLOT OF THE RAILS. SLIDE END CLAMP ASSEMBLY ON TO RAIL UNTIL BOLT HEAD ENGAGES WITH END OF RAIL.

2. INSTALL THE FIRST END MODULE ONTO RAILS WITH THE FLANGE OF THE MODULE FRAME POSITIONED BETWEEN END CLAMPS AN ENDS OF RAILS.

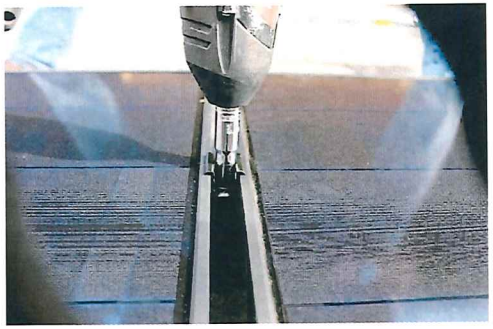


3. WHILE HOLDING MODULE IN POSITION AND WITH FLANGE IN FULL CONTACT WITH RAIL, USE DRILL TO ROTATE END CLAMP BOLT UNTIL CLAMP ENGAGES WITH FLANGE TO PROVIDE CLAMP FORCE.

4. SEE MODULE ENGAGED BY ENDCLAMP.

5. INSERT SECOND MODULE INTO PLACE.

6. INSERT 1/4" T-BOLT INTO TOP SLOT OF RAIL. ENSURE BOLT IS PERPENDICULAR TO RAIL.



7. MODULES MUST BE TIGHT AGAINST CLAMPS WITH NO GAPS. TIGHTEN NUT.

① THROUGH ④ → ENDCLAMP PRO SERIES

⑤ THROUGH ⑦ → MIDCLAMP PRO SERIES

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FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA

PROJECT ADDRESS

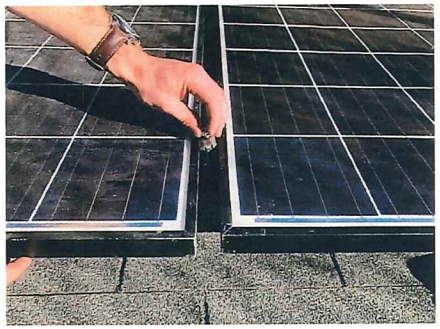
TITLE
SOLARMOUNT PRO SERIES INSTALLATION

DWG NO.
M-D NOA

1. INSERT 1/4" T-BOLT INTO RAIL.

2. ENGAGE MODULE FRAME WITH ENDCLAMPS. TIGHTEN T-BOLT WITH DRILL.

3. SEE MODULE ENGAGED BY ENDCLAMP.



4. INSERT 1/4" T-BOLT INTO RAIL.

5. TIGHTEN T-BOLT SO THAT MIDCLAMP IS PERPENDICULAR TO RAIL SPLICE.

6. TIGHTEN NUT TO SECURE MODULES IN PLACE WITH MIDCLAMP.

① THROUGH ③ ⟶ STANDARD ENDCLAMP

④ THROUGH ⑥ ⟶ STANDARD MIDCLAMP

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FOR
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PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

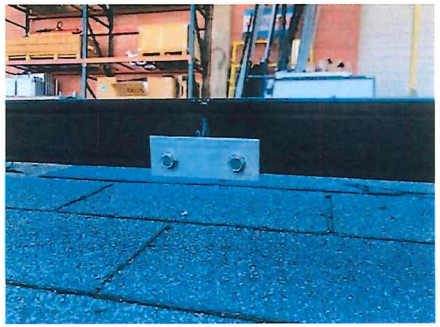
TITLE
SOLARMOUNT STANDARD INSTALLATION

DWG NO.
M-D NOA

1. SLIDE T-FEATURE ON SPLICE INTO THE T-SLOT ON EACH RAIL, CENTERING THE SPLICE BETWEEN THE TWO RAILS.

2. SLIDE T-FEATURE ON SPLICE INTO THE T-SLOT ON EACH RAIL, CENTERING THE SPLICE BETWEEN THE TWO RAILS.

3. TIGHTEN EACH BOLT UNTIL THE BOLT-HEAD IS FLUSH AGAINST THE SPLICE.



4. INSTALLATION IS COMPLETE WHEN THE BONDING HARDWARE PENETRATES THE OPPOSITE SIDE OF THE RAIL.

TYPICAL SPLICE DETAIL

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FOR
MIAMI-DADE COUNTY

PROJECT
MIAMI-DADE CO. NOA
PROJECT ADDRESS

TITLE
SOLARMOUNT BONDING SPLICE INSTALLATION

DWG NO.
M-D NOA

SHEET 12 OF 12